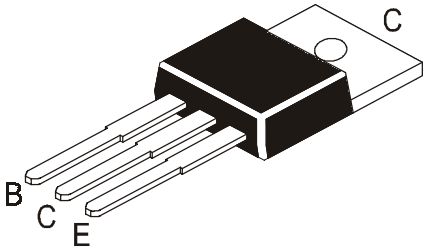
NPN SILICON EPITAXIAL POWER TRANSISTOR

CSD73

TO - 220
Plastic Package



Low Frequency High Power Amplifier

ABSOLUTE MAXIMUM RATINGS

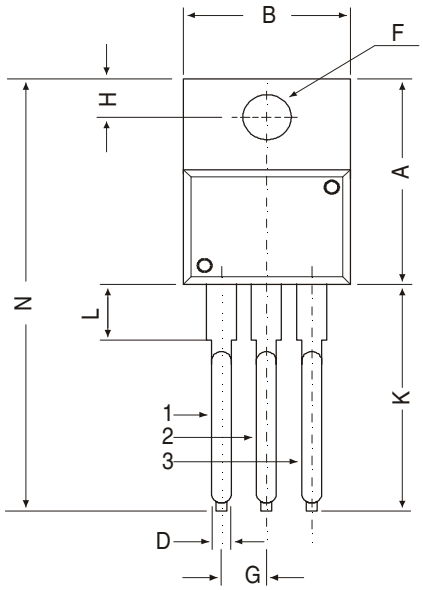
DESCRIPTION	SYMBOL	VALUE	UNIT
Collector - Base Voltage	V_{CBO}	100	V
Collector- Emitter Voltage	V_{CEO}	60	V
Emitter- Base Voltage	V_{EBO}	5	V
Collector Current	I_C	5	A
Collector Dissipation(Tc=25℃)	P_C	30	W
Operating & Storage Junction Temperature Range	$T_{j,\ Tstg}$	-55 to +150	ºC

ELECTRICAL CHARACTERISTICS (Tc=25ºC unless specified otherwise)

DESCRIPTION	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Collector - Base Voltage	V_{CBO}	I_C=1mA, I_E=0	100	-	-	V
Collector- Emitter Voltage	V_{CEO}	I_C=20mA, I_B=0	60	-	-	V
Collector- Base Voltage	V_{EBO}	I_E=1mA, I_C=0	5	-	-	V
Collector Cut off Current	I_{CBO}	V_{CB}=100V, I_E=0	-	-	5	mA
DC Current Gain	h_{FE}	I_C=1A, V_{CE}=10V	70	-	240	
Collector Emitter Saturation Voltage	$V_{CE(sat)}$	I_C=5A, I_B=0.5A	-	-	2.0	V
Base Emitter Saturation Voltage	$V_{BE(sat)}$	I_C=5A, I_B=0.5A	-	-	1.5	V
Base Emitter on Voltage	V_{BE}(on)	I_C=1A, V_{CE}=10V	-	0.75	-	V
Current Gain Bandwidth Product	f_T	I_C=0.3A, V_{CE}=10V	-	20	-	MHz

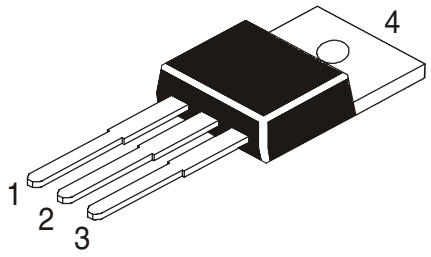
Classification	O	Y
h_{FE}	70 - 140	120 - 240

TO-220 Plastic Package



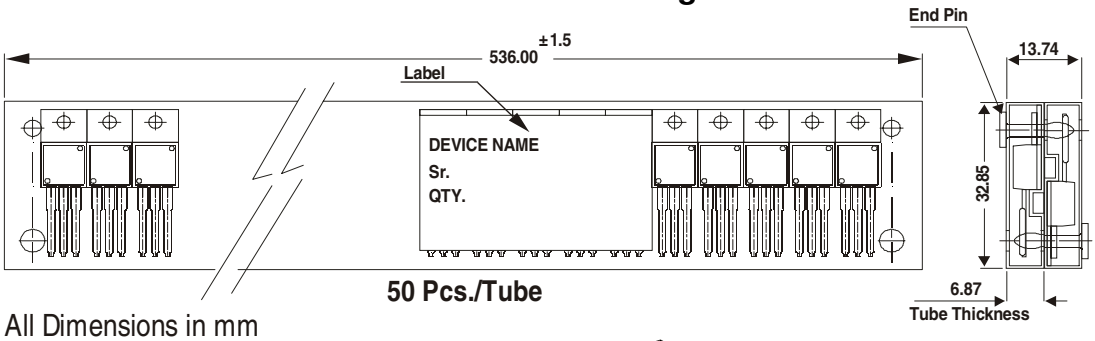
DIM	MIN	MAX
A	14.42	16.51
B	9.63	10.67
C	3.56	4.83
D	—	0.90
E	1.15	1.40
F	3.75	3.88
G	2.29	2.79
H	2.54	3.43
J	—	0.56
K	12.70	14.73
L	2.80	4.07
M	2.03	2.92
N	—	31.24
O	7 DEG	

All diminsions in mm.



Pin Configuration
1. Base
2. Collector
3. Emitter
4. Collector

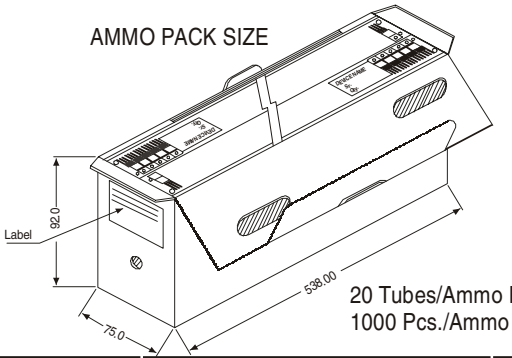
TO-220 Tube Packing



50 Pcs./Tube

All Dimensions in mm

AMMO PACK SIZE



20 Tubes/Ammo Pack
1000 Pcs./Ammo Pack

Packing Detail

PACKAGE	STANDARD PACK		INNER CARTON BOX		OUTER CARTON BOX		
	Details	Net Weight/Qty	Size	Qty	Size	Qty	Gr Wt
TO-220	200 pcs/polybag 50 pcs/tube	396 gm/200 pcs 135 gm/50 pcs	3" x 7.5" x 7.5" 3.5" x 3.7" x 21.5"	1K 1K	17" x 15" x 13.5" 19" x 19" x 19"	16K 10K	36 kgs 28 kgs

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